

	Application No.	Applicant(s)
Notice of Allowability		DINCETAL
	10/603,846 Examiner	DING ET AL.  Art Unit
	Thuan D. Dana	4704
	Thuan D. Dang	1764
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to the election letter filed on 10/20/05.		
2. The allowed claim(s) is/are 1,4-15 and 17.		
<ul> <li>3. Acknowledgment is made of a claim for foreign priority unally all black black</li></ul>	been received. been received in Application No	
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawir se header according to 37 CFR 1.121(c	ngs in the front (not the back) of d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s)		
1. Notice of References Cited (PTO-892)		atent Application (PTO-152)
2. Motice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Summary Paper No./Mail Dat	
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 6/25/03; 9/21/05</li> </ol>	B), 7. ⊠ Examiner's Amenda	
4. Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.  Other	
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## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Reid on 11/07/2005.

The application has been amended as follows:

On the first line of step (b) of claim 1, --by using a quench medium-- has been inserted after "the effluent stream".

At the end of step (b) of claim 1 before ";", --, wherein the quench medium has a pH ranging from about 7.1 to about 11.5-- has been inserted.

At the end of step (c) of claim 1, before ";", --wherein the separating further comprises combining an acidic composition with the quench bottoms stream-- has been inserted.

Claims 2 and 3 have been canceled.

Dependency of claims 4 and 6 has been changed to --claim 1--.

Claim 16 has been canceled.

Claims 18-34 have been canceled.

## Allowable Subject Matter

Claims 1, 4 4-15, and 17 are allowed.

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The following is an examiner's statement of reasons for allowance: the prior art of record does not discloses or render obvious record does not disclose an render obvious a process as called for in claim 1, in which an effluent from an OTO process containing carbon dioxide, oxygenate, water and water is quenched by a medium having a pH ranging from 7.1 to 11.5 to produce a quench bottom stream comprising carbon dioxide, oxygenate, and water. Then the carbon dioxide is separated from the quench bottoms stream, wherein the separating further comprises combining an acidic composition with the quench bottom stream. The closest art of record Miller et al (6,403,854) disclose quenching an OTO effluent by two step of quenching. However, Miller does not disclose how the CO<sub>2</sub> is removed from the effluent. Miller discloses on column 14, lines 25. However, the CO<sub>2</sub> goes with the olefinic gas stream from the first quench column.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuan D. Dang whose telephone number is 571-272-1445. The examiner can normally be reached on Mon-Thu.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 571-272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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J.M.